

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A telescoping actuator comprising:
 - a lead screw;
 - a lead ~~tangential~~ interference stop feature radially attached to said lead screw;
 - a first tubular screw, said first tubular screw having inner threads; and
 - a first ~~tangential~~ interference stop feature radially attached to said inner threads of said first tubular screw;

wherein said lead screw is threadably engaged to said first tubular screw;

wherein upon rotation of said lead screw, said lead screw translates out from said first tubular screw;

and further wherein said lead ~~tangential~~ interference stop feature tangentially contacts said first ~~tangential~~ interference stop feature, and further wherein upon contact of said lead ~~tangential~~ interference stop feature and said first ~~tangential~~ interference stop feature, said first tubular screw rotates in unison with said lead screw.
2. (Original) The telescoping actuator according to claim 1, further comprising a housing to enclose said actuator, said housing comprising a first and second segment, wherein said first segment and said second segment further comprise longitudinal limit stops, and wherein said first segment is rotatably keyed to said second segment, and further wherein said first segment of said housing translates relative to said second segment of said housing within said longitudinal limit stops, thereby preserving a limited portion of overlapping sleeved engagement between said first segment and said second segment.
3. (Original) The telescoping actuator according to claim 1, further comprising:
 - a second tubular screw, said second tubular screw comprising inner threads;
 - wherein said first tubular screw further comprises outer threads;
 - a second tangential interference stop feature, said second tangential interference stop feature attached to said outer threads of said first tubular screw; and

a third tangential interference stop feature, said third tangential interference stop feature attached to said inner threads of said second tubular screw;

wherein said outer threads of said first tubular screw are threadably engaged with said inner threads of said second tubular screw;

and further wherein said second tangential interference stop feature tangentially contacts said third tangential interference stop feature, thereby causing said second tubular screw to rotate in unison with said lead screw and said first tubular screw.

4. (Original) The telescoping actuator according to claim 1, wherein said telescoping actuator comprises a linear drive actuator converting rotary motion to linear motion.

5. (Original) The telescoping actuator according to claim 4, wherein said linear drive actuator comprises an antenna.

6. (Original) The telescoping actuator according to claim 1, wherein said telescoping actuator comprises a surgical device.

7. (Original) The telescoping actuator according to claim 1, wherein said threads of said lead screw extend along said lead screw for a distance that is less than the length of said lead screw.

8. (Original) The telescoping actuator according to claim 1, wherein said inner threads of said first tubular screw extend along said first tubular screw for a distance that is less than the length of said first tubular screw.

9. (Original) The telescoping actuator according to claim 1, wherein said lead tangential interference stop feature is positioned on said lead screw so that said lead screw does not translate substantially completely out of said first tubular screw.

10. (Original) The telescoping actuator according to claim 1, further comprising a grounding bracket coupled to said lead screw.
11. (Currently Amended) A telescoping actuator comprising:
a lead tubular screw, said lead tubular screw comprising inner threads;
a lead ~~tangential~~ interference stop feature radially attached to said lead tubular screw;
a second tubular screw, said second tubular screw comprising outer threads; and
a first ~~tangential~~ interference stop feature radially attached to said outer threads of said second tubular screw;
wherein said lead tubular screw is threadably engaged to said second tubular screw;
wherein upon rotation of said lead tubular screw, said lead tubular screw translates out from said second tubular screw;
and further wherein said lead ~~tangential~~ interference stop feature tangentially contacts said first ~~tangential~~ interference stop feature, and further wherein upon contact of said lead ~~tangential~~ interference stop feature and said first ~~tangential~~ interference stop feature, said second tubular screw rotates in unison with said lead tubular screw.
12. (Original) The telescoping actuator according to claim 11, further comprising a housing to enclose said actuator, said housing comprising a first and second segment, said first and second segment comprising longitudinal limit stops, wherein said first segment is rotatably keyed to said second segment, and further wherein said first segment of said housing translates relative to said second segment of said housing within said longitudinal limit stops, thereby preserving a limited portion of overlapping sleeved engagement between said first segment and said second segment.
13. (Original) The telescoping actuator according to claim 11, further comprising:
a third tubular screw, said third tubular screw comprising outer threads; wherein said second tubular screw further comprises inner threads;

a second tangential interference stop feature, said second tangential interference stop feature attached to said inner threads of said second tubular screw; and

a third tangential interference stop feature, said third tangential interference stop feature attached to said outer threads of said third tubular screw;

wherein said inner threads of said second tubular screw are threadably engaged with said outer threads of said third tubular screw;

and further wherein said second tangential interference stop feature tangentially contacts said third tangential interference stop feature, thereby causing said third tubular screw to rotate in unison with said lead tubular screw and said second tubular screw.

14. (Original) The telescoping actuator according to claim 11, wherein said telescoping actuator comprises a linear drive actuator converting rotary motion to linear motion.

15. (Original) The telescoping actuator according to claim 14, wherein said linear drive actuator comprises an antenna.

16. (Original) The telescoping actuator according to claim 11, wherein said telescoping actuator comprises a surgical device.

17. (Original) The telescoping actuator according to claim 11, wherein said threads of said lead tubular screw extend along said lead tubular screw for a distance that is less than the length of said lead tubular screw.

18. (Original) The telescoping actuator according to claim 11, wherein said outer threads of said second tubular screw extend along said second tubular screw for a distance that is less than the length of said second tubular screw.

19. (Original) The telescoping actuator according to claim 11, wherein said lead tangential interference stop feature is positioned on said lead tubular screw so that said lead tubular screw does not translate substantially completely off of said second tubular screw.

20. (Currently Amended) A telescoping actuator comprising:
- a lead screw;
 - one or more concentric screws; and
 - one or more ~~tangential~~ interference stop features;
- wherein rotation of said lead screw causes said lead screw to translate out of or off of said concentric screws, said extension occurring until a first ~~tangential~~ interference stop feature radially positioned on said lead screw tangentially contacts a second ~~tangential~~ interference stop feature radially positioned on a first concentric screw; and
- wherein upon said tangential contact of said first ~~tangential~~ interference stop feature and said second ~~tangential~~ interference stop feature, further rotation of said lead screw causes said first concentric screw to rotate in unison with said lead screw, thereby forming a tier between said lead screw and said first concentric screw.
21. (Currently Amended) A telescopic actuator comprising:
- a lead screw;
 - a lead ~~tangential~~ interference stop feature radially attached to said lead screw;
 - a first screw; and
 - a first ~~tangential~~ interference stop feature radially attached to said first screw;
- wherein said lead screw is threadably engaged to said first screw;
- wherein upon rotation of said lead screw, said lead screw translates away from said first screw;
- and further wherein said lead ~~tangential~~ interference stop feature tangentially contacts said first ~~tangential~~ interference stop feature, and further wherein upon tangential contact of said lead ~~tangential~~ interference stop feature and said first ~~tangential~~ interference stop feature, said first screw rotates in unison with said lead screw.